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LISTS OF SPECIES

Checklist of polychaetes (Annelida: Polychaeta) from El Salvador, Eastern Pacific.

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Abstract: A checklist of polychaete species recorded from El Salvador in the Pacific coast of Central America is presented (13°44'39" N, 90°07'58" W to 13°30'10" N, 87°43'13" W), including mainly estuaries, sandy beaches and sublittoral environments from El Salvador, Eastern Pacific, is reported. The checklist comprises 121 species belonging to 80 genera in 35 families currently know from the area. We provided a synthesis of the taxonomical and ecological work carried out until now that could guide to future research.

Introduction

The annelid polychaetes, an important component in the benthic communities around the world (Salazar-Vallejo *et al.* 1989), can provide more than a third of the macroscopic species of soft bottoms (Knox 1977) and usually is the most abundant group, with higher species richness and frequency. However, it have a relatively low biomass and its species rarely are commercially exploited by mankind, not enough to charge the commercial importance of other dominant groups (crustaceans and mollusk).

From the ecological point of view their contribution is invaluable to the marine dynamic; polychaetes are part of any food web on which finally appear demersal species of great commercial value and their diverse lifestyles, eating habits, adaptations and evolutionary history are complementary elements of complexity for this group.

Despite the ecological importance of this group, its identification presents great difficulties (Fauchald 1977a; Salazar-Vallejo *et al.* 1989). According to Salazar-Vallejo and Londoño-Mesa (2004) the reasons are basically: 1) the release of the literature on the subject, and 2) lack of a manual or updated list of species in many regions.

We made this alphabetical compilation list of species registered and publications on them, included literature records (papers); it would be useful for taxonomic and ecological studies in this part of the continent. No specimens were re-examined, but we have now added some minor modifications that could guide to future research, as many publications have inserted names considered questionable, misidentifications, synonymies and suggest to future revisions. Unpublished data (thesis and technical reports) which mention polychaetes are listed in additional references.

Species and families reported upon this checklist are a result of taxonomical and ecological surveys in mainly estuaries, sandy beaches and sublittoral environments of El Salvador, located on the Pacific coast of Central America, bordered by the Republic of Guatemala (13°44'39" N, 90°07'58" W) and the Republic of Honduras (13°30'10" N, 87°43'13" W) (Figure 1).

The material is currently deposited in Colección de Invertebrados Marinos of Universidad de El Salvador, where available deposit numbers are provided, Colección de Invertebrados No Artrópodos of Universidad Autónoma de Nuevo León, Escuela de Biología Universidad de El Salvador, Museum of Natural History of El Salvador, Senckenberg Museum, Frankfurt Germany, Zoology Museum University of Hamburg, Museo de Zoología de la Universidad de Costa Rica, and Museum of Comparative Zoology of Harvard University.

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Ampharetidae Malmgren, 1867
Isolda Müller, 1858
Isolda bipinnata (Fauchald, 1977) Molina and Vargas 1995

Amphinomidae Lamarck, 1818
Amphinome Brugière, 1789
Amphinome sp. Rivera and Romero (in press)
Deposit number: IM-An-Poly-Amp-001
Linopherus de Quatrefages, 1865
Linopherus kristiani (Salazar-Vallejo, 1987) Molina and Vargas 1995
Linopherus sp. Rivera and Romero (in press)
Deposit number: IM-An-Poly-Amp-002
Notopygos Grube, 1855
Notopygos ornata (Grube, 1856) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Amp-003
Pareurythoe Gustafson, 1930
Pareutythoe spirocirrata (Essenberg, 1917) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Amp-004

Aphroditidae Malmgren, 1867
Aphrodita Linnaeus, 1758
Aphrodita japonica (von Marenzeller, 1879) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Aph-001

Capitellidae Grube, 1862
Dasybranchus Grube, 1850
Dasybranchus lumbricoides (Grube, 1878) Molina and Vargas 1995
Deposit number: IM-An-Poly-Cap-002
Dasybranchus sp. Rivera and Romero (in press)
Deposit number: IM-An-Poly-Cap-003
Mediomastus Hartman, 1944
Mediomastus setosus (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Neonotomastus Fauchald, 1972
Neonotomastus sp. Rivera and Romero (in press)
Deposit number: IM-An-Poly-Cap-007
Notomastus Sars, 1850
Notomastus lobatus (Hartman, 1947) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Cap-008
Notomastus tenuis (Moore, 1909) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Cap-009

Chrysopetalidae Ehlers, 1864
Chrysopetalum Ehlers, 1864
Chrysopetalum macrophtalmum (Hartmann-Schröder, 1959) Hartmann-Schröder 1959

Cossuridae Day, 1963
Cossura Webster & Benedict, 1887
Cossura brunnea (Fauchald, 1972) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Cos-001
Cossura candida (Hartman, 1955) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Cos-002
Cossura rostrata (Fauchald, 1972) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Cos-003

Eulepethidae Chamberlin, 1919
Grubeulepis Pettibone, 1969
Grubeolepis mexicana (Berkeley & Berkeley, 1939) Molina and Vargas 1995

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Eunicidae Berthold, 1827
Eunice Cuvier, 1817
Eunice chicasi (De León-González *et al.* 2004) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Eunice salvadorensis (De León-González *et al.* 2004) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Eun-002 (paratype)

Flabelligeridae Saint-Joseph, 1894
Flabelligera Sars, 1829
Flabelligera affinis (Sars, 1829) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Fla-001

Glyceridae Grube, 1850
Glycera Savigny, 1818
Glycera convoluta (Keferstein, 1862) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Gly-001
Glycera oxycephala (Ehlers, 1887) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Gly-002
Hemipodus de Quatrefages, 1865
Hemipodus ciliatus (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Hemipodus pustulatus (Friedrich, 1956) Schuster 1957 (= *Hemipodia pustulata*)

Goniadidae Kinberg, 1865
Glycinde Müller, 1858
Glycinde paucignata (Hartmann-Schröder, 1959) Hartmann-Schröder 1959; Molina and Vargas 1995

Hesionidae Grube, 1850
Gyptis Marion & Bobretzky, 1875
Gyptis brevipalpa (Hartmann-Schröder, 1959) Hartmann-Schröder 1959; Molina and Vargas 1995
Hesione Blake, 1985
Hesione intertexta (Grube, 1878) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Hes-002
Hesionides Friedrich, 1937
Hesionides arenarius (Friedrich, 1937) Hartmann-Schröder 1959
Orseis Ehlers, 1864
Orseis brevis (Hartmann-Schröder 1959) Hartmann-Schröder 1959
Oxydromus Grube, 1855
Oxydromus brevipalpa (Hartmann-Schröder 1959) Hartmann-Schröder 1959
Podarke Ehlers, 1864
Podarke minuta (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Struwela Hartmann-Schröder, 1959
Struwela noodti (Hartmann-Schröder, 1959) Hartmann-Schröder 1959

Heterospionidae Hartman, 1963
Heterospio Ehlers, 1874
Heterospio sp. Rivera and Romero (in press)
Deposit number: IM-An-Poly-Het-001

Lumbrineridae Schmarda, 1861
Lumbrineris de Blainville, 1828
Lumbrineris magna-nuchalata (Hartmann-Schröder, 1959) Hartmann-Schröder 1959; Molina and Vargas 1995
Lumbrineris uncinigera (Hartmann-Schröder, 1959) Hartmann-Schröder 1959; Molina and Vargas 1995
Lumbrineris sp. Schuster, 1957
Scoletoma de Blainville, 1828
Scoletoma crassidentata (Fauchald, 1970) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Lum-001
Scoletoma tetraura (Schmarda, 1861) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Lum-002

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Magelonidae Cunningham & Ramage, 1888
Magelona Müller, 1858
Magelona californica (Hartman, 1944) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Mag-001
Magelona pacifica (Monro, 1933) Molina and Vargas 1995; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Mag-002
Magelona papillicornis (Müller, 1858) Molina and Vargas 1995
Magelona tehuanensis (Hernández-Alcantara & Solís-Weiss, 2000) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Mag-003

Maldanidae Malmgren, 1867
Asychis Kinberg, 1867
Asychis sp. Rivera and Romero (in press)
Deposit number: IM-An-Poly-Mal-001
Observation: we consider that this report needs newly revision.
Maldane Grube, 1860
Maldane sp. Rivera and Romero (in press)
Deposit number: IM-An-Poly-Mal-002

Nephtyidae Grube, 1850
Aglaophamus Kinberg, 1866
Aglaophamus verrilli (McIntosh, 1885) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Nep-001
Nephtys Cuvier, 1833
Nephtys brevibranchis (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Nephtys furcifera (Hartmann-Schröder, 1959) Hartmann-Schröder 1959; Molina and Vargas 1995
Nephtys incisa (Malmgren, 1865) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Nep-004
Nephtys oculata (Hartmann-Schröder, 1959) Hartmann-Schröder 1959; Molina and Vargas 1995
Nephtys simoni (Perkins, 1980) Rivera and Romero (in press)
Nephtys squamosa (Ehlers, 1887) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Nep-005
Nephthys sp. Schuster, 1957

Nereididae Johnston, 1865
Laeonereis Hartman, 1945
Laonereis brunnea (Hartmann-Schröder, 1959) Hartmann-Schröder 1959; Molina and Vargas 1995
Neanthes Kinberg, 1866
Neanthes succinea (Frey & Leukart, 1847) Hartmann-Schröder 1959; Molina and Vargas 1995 (= *Nereis succinea* Monro, 1933)
Neanthes seridentata (Hartmann-Schröder, 1959) Hartmann-Schröder 1959; Molina and Vargas 1995
Neanthes sp. Rivera and Romero (in press)
Deposit number: IM-An-Poly-Ner-003

Onuphidae Kinberg, 1865
Americonuphis Fauchald, 1973
Americonuphis reesei (Fauchald, 1973) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Onu-001
Diopatra Audouin & Milne-Edwards 1833
Diopatra farallonensis (Fauchald, 1968) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Onu-002
Diopatra neotridens (Hartman, 1944b) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Onu-003
Diopatra obliqua (Hartman, 1944b) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Onu-004
Diopatra ornata (Moore, 1911) Molina and Vargas 1995; De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Onu-005

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Onuphidae Kinberg, 1865 (continued)
Diopatra Audouin & Milne-Edwards 1833 (continued)
Diopatra splendidissima (Kinberg, 1857) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Onu-006
Diopatra tridentata (Hartman, 1944b) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Onu-007
Kinbergonuphis Fauchald 1982
Kinbergonuphis cedroensis (Fauchald, 1982) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Onu-010
Kinbergonuphis kristiani (De León-González *et al.* 2004) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Onu-011 (paratype)
Kinbergonuphis pigmentata (Fauchald, 1982) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Onu-012
Kinbergonuphis vermillonensis (Fauchald, 1982) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Nothria Malmgren 1867
Nothria sp. Molina and Vargas 1995
Onuphis Audouin & Milne-Edwards 1833
Onuphis brevicirris (Hartmann-Schröder, 1959) Hartmann-Schröder, 1959 (= *Diopatra* sp. Fauchald, 1982)
Paradiopatra Ehlers, 1887
Paradiopatra barrazai (De León-González *et al.* 2004) De León-González *et al.* 2004; Rivera 2007; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Onu-013 (paratype)
Rhamphobrachium Ehlers, 1887
Ramphobrachium hartmanae (Friedrich, 1956) Schuster 1957

Opheliidae Malmgren, 1867
Armandia Filippi, 1861
Armandia salvadoriana (Hartmann-Schröder, 1956) Hartmann-Schröder 1956; 1959; Molina and Vargas 1995

Orbiniidae Hartman, 1942
Haploscoloplos Monro, 1933
Haploscoloplos elongatus (Johnson, 1901) Molina and Vargas 1995
Orbinia de Quatrefages, 1865
Orbinia johnsoni (Moore, 1909) Schuster, 1957; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Orb-001
Scoloplos de Blainville, 1828
Scoloplos armiger (Müller, 1776) Hartmann-Schröder 1959
Scoloplos sp. Rivera and Romero (in press)

Oweniidae delle Chiaje, 1844
Owenia delle Chiaje, 1841
Owenia caudisetosa (Hartmann-Schröder, 1959) Hartmann-Schröder 1959

Paraonidae Cerruti, 1909
Aricidea Webster, 1879
Aricidea (Acmira) lopezi (Berkeley & Berkeley, 1956) Molina and Vargas 1995

Pectinariidae de Quatrefages, 1866
Lagis Malmgren, 1866
Lagis tenera (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Pectinaria Savigny, 1818
Pectinaria sp. Rivera and Romero (in press)

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Phyllodocidae Ørsted, 1843
Anaitides Czerniavsky, 1882
Anaitides longipes (Kinberg, 1866) Rivera and Romero (in press)
Anaitides madeirensis (Lagerhans, 1880) Schuster 1957; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Phy-002
Eteone Savigny, 1818
Eteone aestuarina (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Phyllodoce Savigny, 1818
Phylodoce panamensis (Treadwell, 1917) Molina and Vargas 1995
Phyllodoce pseudoseriata (Hartmann-Schröder, 1959) Hartmann-Schröder 1959

Pilargidae Saint-Joseph, 1899
Ancistrosyllis McIntosh, 1879
Ancistrosyllis ocellata (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Loandalia Monro, 1936
Loandalia gracilis (Hartmann-Schröder, 1959) Hartmann-Schröder 1959; Molina and Vargas 1995
Sigambra Müller, 1858
Sigambra bassi (Hartman, 1945) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Pil-002
Sigambra ocellata (Hartmann-Schröder, 1959) Hartmann-Schröder 1959

Pisionidae Ehlers, 1901
Pisionidens Aiyar & Alikunhi, 1943
Pisionidens indica (Aiyar & Alikunhi, 1940) Hartmann-Schröder 1959

Polynoidae Malmgren, 1867
Eunoe Malmgren, 1865
Eunoe sp. Molina and Vargas 1995
Lepidonotus Leach, 1816
Lepidonotus crosslandi (Monro, 1928) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Pol-002
Mayella Hartmann-Schröder, 1959
Mayela articulata (Hartmann-Schröder, 1959) Hartmann-Schröder 1959

Sabellariidae Johnston, 1865
Idanthyrsus Kinberg, 1867
Idanthyrsus pennattus (Peters, 1855) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Saby-001

Sabellidae Malmgren, 1867
Chone Kröyer, 1856
Chone americana (Day, 1973) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Sabe-001
Chone minuta (Hartman, 1944) Molina and Vargas 1995
Potamilla Malmgren, 1866
Potamilla bioculata (Hartmann-Schröder, 1959) Hartmann-Schröder 1959

Serpulidae Johnston, 1865
Hydroides Gunnerus, 1768
Hydroides parvus (Treadwell, 1901) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Ser-001

Sigalionidae Kinberg, 1856
Sthenelais Kinberg, 1855
Sthenelais sp. Schuster, 1957

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Spionidae Grube, 1850
Dypolydora Bosc, 1802
Dipolydora socialis (Schmarda, 1861) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Spi-002
Malacoceros de Quatrefages, 1843
Malacoceros sp. Rivera and Romero (in press)
Nerinides Mesnil, 1896
Nerinides arenicola (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Paraprionospio Caullery, 1914
Paraprionospio pinnata (Ehlers, 1901) Molina and Vargas 1995; Rivera and Romero (in press)
Deposit number: IM-An-Poly-Spi-005
Scolelepis de Blainville, 1828
Scolelepis squamata (Müller, 1806) Rivera and Romero (in press)
Streblospio Webster, 1879
Streblospio sp. Hartmann-Schröder, 1959

Sternaspidae Carus, 1863
Sternaspis Otto, 1821
Sternaspis scutata (Ranzani, 1817) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Ster-001

Syllidae Grube, 1850
Eusyllis Malmgren, 1867
Eusyllis heterocirrata ? (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Eusyllis spirocirrata ? (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Exogone Ørsted, 1845
Exegone (Exegone) breviantennata (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Odontosyllis Claparède, 1863
Odontosyllis brevipes (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Odontosyllis multidentatus (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Opisthosyllis Langerhans, 1879
Opisthosyllis arboricola (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Sphaerosyllis Claparède, 1863 (= *Erinaceusyllis* San Martín, 2005)
Erinaceusyllis centroamericana (Hartmann-Schröder, 1959) Hartmann-Schröder 1959
Typosyllis Langerhans, 1879 (= *Syllis* San Martín, 2003)
Syllis salina (Hartmann-Schröder, 1959) Hartmann-Schröder 1959

Terebellidae Grube, 1850
Polycirrus Grube, 1850
Polycirrus sp. Rivera and Romero (in press)
Deposit number: IM-An-Poly-Ter-001
Streblosoma Sars, 1872
Streblosoma verrilli (Treadwel, 1911) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Ter-002

Trichobranchidae Malmgren, 1866
Terebellides Sars, 1835
Terebellides reishi (Williams, 1984) Rivera and Romero (in press)
Deposit number: IM-An-Poly-Tri-001

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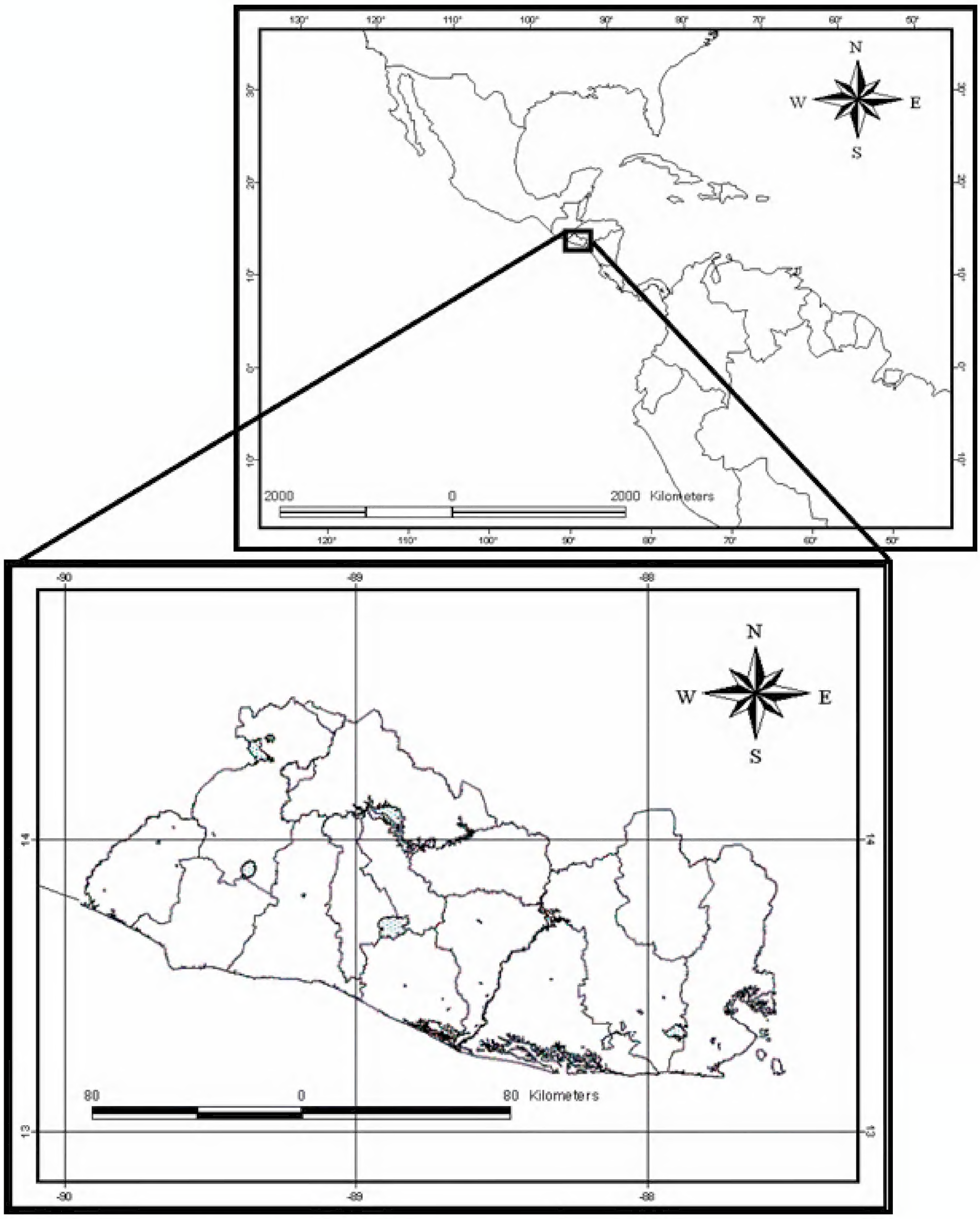

Figure 1. Location of El Salvador, Central America.

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